

MAGNAFLUX CORPORATION -- ZL-27 A ZYGLO PENETRANT -- 6850-01-263-8231

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Product Identification
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Product ID:ZL-27 A ZYGLO PENETRANT

MSDS Date:01/01/1991

FSC:6850

NIIN:01-263-8231

MSDS Number: BHQFL

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION

Address:7300 W LAWRENCE AVE

City:CHICAGO

State:IL

ZIP:60656-3504

Country:US

Info Phone Num:708-867-8000

Emergency Phone Num:708-867-80

00/CHEMTREC 800-424-9300

Preparer's Name:BRUCE C. GRAHAM, CH. CHEM

CAGE:37676

=== Contractor Identification ===

Company Name:ILLINOIS TOOL WORKS INC MAGNAFLUX DIV

Address:3624 WEST LAKE AVENUE

Box:City:GLENVIEW

State:IL

ZIP:60025

Country:US

Phone:847-657-5300/

CAGE:37676

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Composition/Information on Ingredients
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Ingred Name:WHITE MINERAL OIL (SLAB OIL)

CAS:8042-47-5

RTECS #:PY8047000

Fraction by Wt: 30.0%

ACGIH TLV:5MG/CUM OIL MIST

Ingred Name:KEROSENE

CAS:8008-20-6

RTECS #:OA5500000
Fraction by Wt: 10.0%
ACGIH TLV:100MG/CUM

Ingred Name:PER MFR MSDS, "CONTAINS NO OTHER INGREDIENT SUSPECTED OF
BEING HAZARDOUS ACCORDING TO 29CFR1910.1200 OSHA HAZCOMM RULE.
RTECS #:9999999ZZ

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===== Hazards Identification =====

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: CAUSES MILD IRRITATION TO EYES
AND SKIN.
Effects of Overexposure:INHALATION: VAPORS MAY CAUSE DIZZINESS, NAUSEA.
SPRAY MIST MAY IRRITATE BREATHING PASSAGES; EYES: LIQUID CONTACT
MAY CAUSE MILD IRRITATION; SKIN: MAY CAUSE IRRITATION. DISSOLVES
SKIN OILS. INGESTION:CAUSES GASTRIC UPSET.
Medical Cond Aggravated by Exposure:NOT STATED BY MANUFACTURER.

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===== First Aid Measures =====

First Aid:INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT,
GIVE OXYGEN; SKIN:REMOVE CONTAMINATED CLOTHES. WASH OFF WITH
FLOWING WATER. USE SOOTHING LOTION. IF IRRITATION PERSISTS, GET
MEDICAL ATTN; EYES: IMMEDIATELY RINSE/FLUSH WITH COPIOUS AMOUNT OF
RUNNING WATER, AND GET MEDICAL ATTENTION. INGESTION: GET MEDICAL
ATTENTION.

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===== Fire Fighting Measures =====

Flash Point Method:PMCC
Flash Point:200F,93C MIN
Lower Limits:1%
Upper Limits:6%
Extinguishing Media:CARBON DIOXIDE, FOAM.
Fire Fighting Procedures:KEEP CONTAINERS COOL WITH WATER SPRAY. DO NOT
SPRAY ON BURNING PRODUCT.
Unusual Fire/Explosion Hazard

d:WHEN INVOLVE IN COMBUSTION, MAY EMIT
TOXIC GASES AT OR ABOVE DECOMPOSITION TEMPERATURE.

===== Accidental Release Measures =====

Spill Release Procedures:REMOVE IGNITION SOURCES.SMALL SPILL:WIPE UP OR
MOP UP BUT DO NOT BREATHE VAPORS.PLACE RAGS IN CLOSED DRUMS; LARGE
SPILL:WEAR PERSONAL SAFETY EQUIPMENTS.DIKE AREA FAR AHEAD.ABSORB
LIQUID WITH COMMERCIAL ABSORBENT.TRANSFER WASTE MATL IN SALVAGE
TANKS.

===== Handling and Storage
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Handling and Storage Precautions:STORE AWAY FROM HEAT SOURCES IN WELL
VENTILATED AREA. AVOID AGAINST PHYSICAL DAMAGE TO CONTAINERS. KEEP
CONTAINERS TIGHTLY CLOSED.

Other Precautions:DO NOT BREATHE VAPORS. DO NOT SMOKE WHILE USING. DO
NOT HEAT ABOVE 130F(54C). AVOID FREQUENT OR PROLONGED SKIN CONTACT.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR A RESPIRATOR WITH CHEMICAL CARTRIDGE. IN
CONFINED AREAS, W

EAR A FULL MASK WITH SEPARATE AIR SUPPLY.

Ventilation:GENERAL VENTILATION TO KEEP BELOW 350PPM LIMIT.

Protective Gloves:NITRILE RUBBER GLOVES.

Eye Protection:FULL GOGGLES. WHEN SPRAYING OR POURING.

Other Protective Equipment:EITHER USE IN A SPRAY BOOTH OR NEXT TO AN
EXHAUST VENT.

Work Hygienic Practices:AVOID SKIN CONTACT. WASH THOROUGHLY AFTER
HANDLING OR USE. LAUNDER CONTAMINATED CLOTTES.

Supplemental Safety and Health

THIS REPRESENTS NEW FORMULATION OF ZL-27A; OLD FORMULATION DATA UN
DER

PNI "B" OF THIS NSN; THE NSN IS FOR A SET OF PENETRANT (ZL-27A OR
ZL-22D) AND EMULSIFIER (ZR-10A OR ZR-10B). PER QPL-25135-15, ZL-
27A/ZR-10A, AND ZL-22D/ZR-10B SETS QUALIFY FOR TYPE I,METH D,LVL 3
NSNS OF MIL-I-25135E;KEY1=N1.

===== Physical/Chemical Properties =====

HCC:N1

Boiling Pt:B.P. Text:410F,210C

Vapor Pres:0.5 @ 100F

Vapor Density:>1

Spec Gravity:0.96

Solubility in Water:NEGLIGIBLE

Percent Volatiles by Volume:5.0%

===== St

ability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

MFR STATED "NONE".

Stability Condition to Avoid: HEAT, HIGH TEMPERATURES.

Hazardous Decomposition Products: EMITS OXIDES OF CARBON AND NITROGEN ON COMBUSTION.

===== Disposal Considerations =====

Waste Disposal Methods: INCINERATE OR DISPOSE OF AS EPA HAZARDOUS WASTE D001 (IGNITABLE WASTE), I/A/W ALL APPLICABLE FEDERAL, STATE, LOCAL REGULATIONS; IF LOCAL AUTHORITIES PROHIBIT DUMPING RINSINGS DOWN THE SEWER, PURIFY RINSINGS WITH MAGNAFLUX WASTE WATER TREATMENT SYSTEM.

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